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ABSTRACT

This report presents a brief summary of data gathered from the Survey of Earned Doctorates during fiscal year 1973. The survey is conducted annually by the Commission on Human Resources (CHR) of the National Research Council. Questionnaire forms are filled out by the graduates as they complete all requirements for their doctoral degrees. The data in this report refer to doctorates earned during the period July 1, 1972 to June 30, 1973, but they do not include professional degrees such as the MD, DDS, and DVM. The statistical tables include data on: doctoral growth rate, racial or ethnic group, number of doctoral recipients by sex and subfields, statistical profile of women doctorate recipients, percentage of doctorate recipients by sources of support, and number of doctorate recipients by sex, state of doctoral institution, and summary field. (Author/PG)

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Summary Report 1973 DOCTORATE RECIPIENTS FROM UNITED STATES UNIVERSITIES

U.S. DEPARTMENT OF HEALTH,
EDUCATION & WELFARE
NATIONAL INSTITUTE OF
EDUCATION

THE NATIONAL INSTITUTE OF EDUCATION
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**Summary
Report
1973
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FROM
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STATES
UNIVERSITIES**

Prepared in the
Commission on Human Resources
National Research Council

National Academy of Sciences
Washington, D.C.
May 1974

This report presents a brief summary of data gathered from the Survey of Earned Doctorates during fiscal year 1973. The Survey is conducted annually by the Commission on Human Resources (CHR) of the National Research Council. Questionnaire forms, distributed with the cooperation of the Graduate Deans, are filled out by the graduates as they complete all requirements for their doctoral degrees. The data in this report refer to doctorates earned during the period July 1, 1972 to June 30, 1973, but they do not include professional degrees such as the MD, DDS, and DVM.

This is the seventh in a series of yearly summaries of data from the Survey of Earned Doctorates, a series that began in 1967. The CHR publishes data gathered during a given fiscal year in the following fiscal year. Trend data from an earlier period can be found in the book, *Doctorate Recipients from United States Universities 1958-1966* (NAS publication 1489).

The distribution of the Survey of Earned Doctorates questionnaire, the maintenance of the resulting data file, and the publication of this report are supported jointly by the National Science Foundation, the United States Office of Education, the National Institutes of Health, and the National Endowment for the Humanities. The CHR wishes to express its appreciation to these agencies for their assistance.

The CHR is concerned with those activities of the National Research Council that contribute to the more effective development and utilization of the nation's human resources. Its programs seek to strengthen higher education and develop better understanding of the educational process. It is hoped that prompt reporting of present data to educational, governmental, and professional agencies will facilitate planning in higher education. Suggestions for improvement of the content or format of the report and questions or comments will be welcomed. Such communications may be directed to the Commission on Human Resources, National Research Council, 2101 Constitution Avenue, Washington, D.C., 20418.

DOCTORAL GROWTH RATE CONTINUES TO DECREASE

The number of doctorate recipients in 1973 was 33,727, a 2.2% increase over the number receiving the degree in 1972. This is the lowest rate of increase since 1960—the beginning of a decade of rapid growth in doctoral education.

What is particularly notable is the difference in the rates for men and women. An additional 800 women received the doctorate in FY 1973, a 15.1% increase over FY 1972. The rate for men was -0.3% with 74 fewer men receiving the degree in FY 1973. The table below shows the rates of change for men and women in the various broadly categorized doctoral fields. To ascertain changes at the subfield level, Table 1 of this report should be compared with last year's report.

Doctoral Field	Percent Change 1972 to 1973		
	Men	Women	Total Doctorates
Physical Sciences	- 5.4	+ 3.0	- 4.9
Mathematics	- 6.9	+ 24.0	- 4.6
Physics & Astronomy	- 3.5	+ 21.7	- 2.8
Chemistry	- 7.7	- 11.4	- 8.1
Earth Sciences	- 0.7	+ 4.6	- 0.5
Engineering	- 4.7	+114.3	- 3.9
Life Sciences	- 1.3	+ 19.2	+ 1.7
Biological Science	- 1.3	+ 17.9	+ 2.2
Agricultural Science	+ 1.1	+ 12.1	+ 1.5
Medical Science	- 9.0	+ 33.3	- 3.2
Social Sciences	+ 2.8	+ 18.5	+ 7.3
Psychology	+ 4.3	+ 18.3	+ 8.0
Arts & Humanities	+11.3	+ 21.7	+14.1
Professional Fields	- 4.6	+ 8.7	- 3.0
Education	+ 0.5	+ 8.5	+ 2.4
TOTAL	- 0.3	+ 15.1	+ 2.2

RACIAL OR ETHNIC GROUP

Two years ago, the Survey of Earned Doctorates questionnaire was revised and for the first time included the item "racial or ethnic group." (A copy of the questionnaire is printed on pp. 16-18. Please refer to it for the question's phrasing and format.) The graduates of 1973 were the first to respond to the revised form.

Because the previous version of the questionnaire was still in circulation, some (19%) of the FY 1973 doctorate recipients did not receive the new form. The data presented here are therefore based on questionnaires returned by 27,227 graduates--81% of the 33,727 persons who received the doctorate in FY 1973. A preliminary comparison of those who received the form and those who did not indicates there is no appreciable institutional or geographical bias in the data.

The table below shows the number of doctorate recipients in each category and the field in which their degree was received:

Racial/Ethnic Group		FIELD OF DOCTORATE							Total
		Phys. Scies	Engr.	Life Scies	Social Scies	A & H	Prof. Fields	Educ.	
White/Caucasian	No.	3396 ^a	1902	3185	4069	3894	994	4811	22251
	H%	15.3	8.5	14.3	18.3	17.5	4.4	21.6	
	V%	78.3	69.5	78.2	84.8	87.3	86.6	84.9	81.7
Black/Negro/Afro-Amer. ^a	No.	45	27	96	87	74	24	382	735
	H%	6.1	3.7	13.1	11.8	10.1	3.1	52.0	
	V%	1.0	1.0	2.4	1.8	1.7	2.1	6.7	2.7
American Indian ^b	No.	10	7	17	21	18	1	34	108
	H%	9.3	6.5	15.7	19.4	16.7	.9	31.5	
	V%	.2	.3	.4	.4	.4	.1	.6	.4
Span.-Amer./Mex.-Amer./Chicano ^c	No.	35	14	49	26	49	4	38	215
	H%	16.3	6.5	22.8	12.1	22.8	1.9	17.7	
	V%	.8	.5	1.2	.5	1.1	.4	.7	.8
Puerto Rican-American ^d	No.	3	3	7	8	6		10	37
	H%	8.1	8.1	18.9	21.6	16.2		27.0	
	V%	.1	.1	.2	.2	.1		.2	.1
Oriental ^e	No.	480	476	372	190	84	36	93	1731
	H%	27.7	27.5	21.5	11.0	4.9	2.0	5.4	
	V%	11.1	17.4	9.1	4.0	1.9	3.0	1.6	6.4
Other	No.	10	17	7	8	11	1	4	58
	H%	17.2	29.3	12.1	13.8	19.0	1.7	6.9	
	V%	.2	.6	.2	.2	.2	.1	.1	.2
No Useable Response	No.	359	292	340	387	325	91	298	2092
	H%	17.2	14.0	16.3	18.5	15.5	4.2	14.2	
	V%	8.3	10.7	8.3	8.1	7.3	7.8	5.3	7.7
Total	No.	4338	2738	4073	4796	4461	1151	5670	27227
	H%	15.9	10.1	15.0	17.6	16.4	4.1	20.8	
	V%	100.0	100.1	100.0	100.0	100.0	100.1	100.1	100.0

NOTE: H% indicates the horizontal percentages which sum to 100% across the doctoral fields for each racial/ethnic group. The vertical percentages (V%) sum to 100% for each doctoral field.

^aIncludes 7 persons who checked this category and one other.

^bTwenty persons checked only this category; 88 checked American Indian and White.

^cIncludes 45 persons who checked this category and White.

^dEight persons in this category also checked White.

^eTwelve persons checked this category and White.

There were 184 persons who checked more than one category. Rather than record these persons in "other" or "no useable response" (note especially the effect this would have on the American Indian group), we have added the multiple responses to one group, giving a

single category to each respondent. Further analysis may warrant another procedure.

There were 2,092 persons who did not check one of the specific categories. Some of these persons checked the "other" category and reported their nationality or religion; these responses were not used. A few simply did not respond.

Ten percent of the doctorate recipients reported themselves as being in a minority category. Because numbers in some of the groups are small, and because complete analysis of these data was not possible before printing this summary report, the following profile data are presented on the 2,884 doctorate recipients as a single group.

**PROFILE DATA on FY 1973 Doctorate Recipients
Reporting a Minority Racial or Ethnic Group Identification**

	U.S. Citizens		Non-U.S. Citizens		TOTAL*	
	No.	%	No.	%	No.	%
TOTAL	1134	100.0	1726	100.0	2884	100.0
Black/Negro/Afro-American	581	51.2	144	8.3	735	25.5
American Indian	107	9.4	1	-	108	3.7
Span.-Amer./Mex.-Amer./Chicano	135	11.9	79	4.6	215	7.5
Puerto Rican-American	36	3.2	-	-	37	1.3
Oriental	251	22.1	1468	85.1	1731	60.0
Other	24	2.1	34	2.0	58	2.0
Sex						
Male	868	76.5	1556	90.2	2443	84.7
Female	266	23.5	170	9.8	441	15.3
Doctoral Field						
Physical Sciences	118	10.4	461	26.7	583	20.2
Engineering	84	7.4	456	26.4	544	18.9
Life Sciences	160	14.1	385	22.3	548	19.0
Social Sciences	158	13.9	179	10.4	340	11.8
Arts & Humanities	143	12.6	95	5.5	242	8.4
Education	443	39.1	113	6.5	561	19.5
Professions	28	2.5	37	2.1	66	2.3
Median Age at Doctorate	35.0 years		31.7 years		32.5 years	
Median Time Lapse from Baccalaureate to Doctorate						
Total Time	11.3 years		8.4 years		9.2 years	
Registered Time	6.2 years		5.6 years		5.8 years	
Postgraduation Plans						
Study appointment	158	13.9	576	33.4	734	25.4
Employment	933	82.3	1083	62.7	2030	70.4
R & D	151	16.2	409	37.8	564	27.8
Teaching	453	48.5	422	39.0	880	43.3
Administration	153	16.4	23	2.1	176	8.7
Professional services	54	5.8	60	5.5	115	5.7
Other	31	3.3	48	4.4	80	3.9
Unknown	91	9.8	121	11.2	215	10.6
No report of plans	43	3.8	67	3.9	120	4.2
Postgraduation Location						
U.S.	860	75.8	723	41.9	1592	55.2
Foreign country	19	1.7	458	26.5	480	16.6
Unknown	255	22.5	545	31.6	812	28.2

*The total includes 24 persons who did not report their citizenship at time of doctorate.

EXPLANATION OF FOUR BASIC TABLES

TABLE 1	Number of Doctorate Recipients by Sex and Subfields, FY 1973
TABLE 2	Statistical Profile of Women Doctorate Recipients and All Doctorate Recipients by Field of Doctorate, FY 1973 (two tables)
TABLE 3	Percentage of FY 1973 Doctorate Recipients by Sources of Support in Graduate School, by Sex and Summary Fields
TABLE 4	Number of FY 1973 Doctorate Recipients by Sex, State of Doctoral Institution and Summary Field

Table titles and headings are generally self-explanatory, but a few terms need special definition or explanation.

Table 2:

There are two 2-page tables; one presents data about all the doctorate recipients of FY 1973 and the other contains data about women only. The fields of the doctorate which head Table 2 are the same as those in the 1972 report but differ from those in the *Summary Reports* of the previous five years. The fields are grouped into broader categories and only the largest fields are shown in detail. Refer to page 19 for the codes included in each broad field and the Specialties List on page 18 for the codes and names of each subfield.

"Median Age at Doctorate"—One-half received the doctorate at this age or younger.

"Percent with Master's"—This indicates the percentage of doctorate recipients in a field who received a master's degree in any field before taking the doctorate.

"Median Time Lapse"—*Total Time* refers to total calendar time elapsed between year of baccalaureate and year of doctorate; *Registered Time* refers to the total time registered in a university between baccalaureate and doctorate.

Postgraduation plans of the doctorate recipients are grouped as: *Post doctoral study* (fellowship, research associateship, traineeship, other), *Employment* (educational institution, industry, etc.), or *Unknown*. The sum of the columns of percentages totals 100% with allowance for rounding. For example, 5.7% of all the engineers accepted postdoctoral fellowships, 7.1% received research associateships, 0.3% held traineeships, and 1.0% had some other form of postdoctoral study support; 81.5% were employed; and 4.4% did not indicate their postdoctoral plans. The percentages listed by type of employer (educational institution, industry, etc.) total to the 81.5% employed.

Percentages showing the distribution of doctorate recipients by *work activity* and by *region of employment* are based only on those who were going into employment. They exclude those planning postdoctoral study as described in the categories above.

Table 3:

Data in Table 3 describe sources of financial support during graduate school. The question was answered by 31,828 (94%) of the FY 1973 doctorate recipients. The data in the table should be interpreted as follows: 544 doctorate recipients in the physical sciences reported financial support from NSF fellowships during graduate school. This number is 10.9% of all the physical science doctorates who answered the question, and it is 32.3% of those in all fields that reported NSF fellowship support. Since students may indicate multiple sources of support, the vertical percentages sum to more than 100%.

Table 4:

Table 4 shows the *number of persons* receiving a doctorate from universities in each of the 50 states, District of Columbia and Puerto Rico.

TABLE 1
NUMBER OF DOCTORATE RECIPIENTS BY SUBFIELDS, FISCAL YEAR 1973

SUBFIELD OF DOCTORATE	NUMBER OF DOCTORATES			SUBFIELD OF DOCTORATE	NUMBER OF DOCTORATES		
	MEN	WOMEN	TOTAL		MEN	WOMEN	TOTAL
TOTAL ALL FIELDS	27645	6082	33727				
PHYSICAL SCIENCES	4862	376	5238				
MATHEMATICS	1103	119	1222	CHEMICAL	404	4	408
ALGEBRA	136	25	161	CERAMIC	25	1	26
ANALYSIS	226	18	244	ELECTRICAL	667	6	673
GEOMETRY	28	4	32	ELECTRONICS	113	1	114
LOGIC	30	3	33	INDUSTRIAL	107	2	109
NUMBER THEORY	28	3	31	NUCLEAR ENGINEERING	128	1	129
PROBABILITY, MATH STATISTICS	138	18	156	ENGINEERING MECHANICS	172	4	176
TOPOLOGY	99	12	111	ENGINEERING PHYSICS	33	1	34
COMPUTING THEORY AND PRACTICE	205	16	221	MECHANICAL	361	3	364
OPERATIONS RESEARCH	3		3	METALLURGY AND PHYS MET ENG	137	3	140
APPLIED MATHEMATICS	112	7	119	OPERATIONS RESEARCH	101	3	104
MATHEMATICS, GENERAL	84	6	90	FUEL TECH, PETROL ENGR	6		6
MATHEMATICS, OTHER	34	7	41	SANITARY	53	1	54
PHYSICS AND ASTRONOMY	1534	56	1590	MINING ENGINEERING	12		12
ASTRONOMY	60	4	64	MATERIAL SCIENCE ENGINEERING	129	3	132
ASTROPHYSICS	65	2	67	ENGINEERING, GENERAL	37		37
ATOMIC AND MOLECULAR PHYSICS	119	3	122	ENGINEERING, OTHER	148	2	150
ELECTROMAGNETISM	13		13				
MECHANICS	5	1	6	LIFE SCIENCES	4197	871	5068
ACOUSTICS	14	1	15	BIOLOGICAL SCIENCES	2660	719	3379
FLUIDS	28		28	BIOCHEMISTRY	507	129	636
PLASMA PHYSICS	70	4	74	BIOPHYSICS	107	8	115
OPTICS	33		33	BIOCHEMISTRY, BIOSTATISTICS	31	3	34
THERMAL PHYSICS	13	3	16	ANATOMY	96	31	127
ELEMENTARY PARTICLES	218	4	222	CYTOLOGY	20	18	38
NUCLEAR STRUCTURE	175	7	182	EMBRYOLOGY	19	10	29
SOLID STATE	388	12	400	IMMUNOLOGY	37	12	49
PHYSICS, GENERAL	199	8	207	BOTANY	160	50	210
PHYSICS, OTHER	134	7	141	ECOLOGY	118	16	134
CHEMISTRY	1670	179	1849	HYDROBIOLOGY	10	1	11
ANALYTICAL	120	8	128	MICROBIOLOGY	287	93	380
INORGANIC	228	33	261	PHYSIOLOGY, ANIMAL	290	67	357
ORGANIC	597	46	643	PHYSIOLOGY, PLANT	72	20	92
NUCLEAR	23	1	24	ZOOLOGY	264	67	331
PHYSICAL	403	53	456	GENETICS	103	24	127
THEORETICAL	48	5	53	ENTOMOLOGY	166	16	182
AGRICULTURAL AND FOOD	8	1	9	MOLECULAR BIOLOGY	84	30	119
PHARMACEUTICAL	44	6	50	BIOL SCIENCES, GENERAL	144	46	190
POLYMER CHEMISTRY	14		14	BIOL SCIENCES, OTHER	140	78	218
CHEMISTRY, GENERAL	121	16	137	AGRICULTURAL SCIENCES	994	37	1031
CHEMISTRY, OTHER	64	10	74	AGRONOMY	150	2	152
EARTH SCIENCES	555	22	577	AGRICULTURAL ECONOMICS	172	6	178
MINERALOGY, PETROLOGY	45	2	47	ANIMAL HUSBANDRY	34	1	35
GEOCHEMISTRY	42		42	FOOD SCIENCE AND TECHNOLOGY	82	10	92
STRATIGR, SEDIMENTATION	50	4	54	FISH AND WILDLIFE	46	2	48
PALEONTOLOGY	38	6	44	FORESTRY	78		78
STRUCTURAL GEOLOGY	20	1	21	HORTICULTURE	49	1	50
GEOPHYSICS	66	1	67	SOILS AND SOIL SCIENCE	100	2	102
GEOMORPHOL, GLACIAL GEOLOGY	27		27	ANIMAL SCIENCES	109	4	113
HYDROLOGY	30		30	PHYTOPATHOLOGY	94	8	102
OCEANOGRAPHY	84	4	88	AGRICULTURE, GENERAL	4		4
METEOROLOGY	57	1	58	AGRICULTURE, OTHER	76	1	77
APPL GEOL, GEOL ENG, ECON GEOL	22		22	MEDICAL SCIENCES	465	108	573
FUEL TECHNOL, PETROL ENG	10		10	MEDICINE AND SURGERY	3		3
EARTH SCIENCES, GENERAL	38	2	40	PUBLIC HEALTH	64	28	92
EARTH SCIENCES, OTHER	26	1	27	VETERINARY MEDICINE	29	3	32
				HOSPITAL ADMINISTRATION	4		4
ENGINEERING	3293	45	3338	PARASITOLOGY	14	5	19
AERONAUTICAL AND ASTRONAUTICAL	165	2	167	PATHOLOGY	72	6	78
AGRICULTURAL	74	1	75	PHARMACOLOGY	133	27	160
BIOLOGICAL ENGINEERING	70	1	71	PHARMACY	71	1	72
CIVIL	351	6	357	MEDICAL SCIENCES, GENERAL	12	4	16
				MEDICAL SCIENCES, OTHER	63	34	97
				ENVIRONMENTAL SCIENCES	78	7	85

SUBFIELD OF DOCTORATE	NUMBER OF DOCTORATES		
	MEN	WOMEN	TOTAL

<u>SOCIAL SCIENCES (INCL PSYCH)</u>	<u>4668</u>	<u>1243</u>	<u>5911</u>
ANTHROPOLOGY	228	96	324
COMMUNICATIONS	145	35	180
SOCIOLOGY	445	154	599
ECONOMICS	850	57	907
ECONOMETRICS	31		31
STATISTICS	56	6	62
GEOGRAPHY	198	17	215
AREA STUDIES	27	2	29
POLITICAL SCIENCE, PUBLIC ADMIN	687	93	780
INTERNATIONAL RELATIONS	101	25	126
URBAN AND REG PLANNING	46	7	53
SOCIAL SCIENCES, GENERAL	33	5	38
SOCIAL SCIENCES, OTHER	93	30	123
<u>PSYCHOLOGY</u>	<u>1728</u>	<u>716</u>	<u>2444</u>
CLINICAL	517	220	737
COUNSELING AND GUIDANCE	140	59	199
DEVELOP AND GERONTOLOGY	72	77	149
EDUCATIONAL	78	35	113
SCHOOL PSYCHOLOGY	67	41	108
EXPERIMENTAL	248	85	333
COMPARATIVE	21	3	24
PHYSIOLOGICAL	89	33	122
INDUSTRIAL AND PERSONNEL	70	6	76
PERSONALITY	34	17	51
PSYCHOMETRICS	19	5	24
SOCIAL	160	54	214
PSYCHOLOGY, GENERAL	113	41	154
PSYCHOLOGY, OTHER	100	40	140

<u>ARTS AND HUMANITIES</u>	<u>3817</u>	<u>1547</u>	<u>5364</u>
ART, FINE AND APPLIED	8		8
ART, HISTORY AND CRITICISM	61	54	115
HISTORY, AMERICAN	402	48	450
HISTORY, EUROPEAN	338	64	402
HISTORY, GENERAL AND OTHER	274	57	331
HISTORY AND PHILOSOPHY OF SCIENCE	20	10	30
MUSIC	269	80	349
SPEECH AS A DRAMATIC ART	194	72	266
ARCHAEOLOGY	11	10	21
RELIGION	155	13	168
PHILOSOPHY	343	62	405
LINGUISTICS	142	65	207
AMERICAN LANG AND LIT	182	82	264
ENGLISH LANG AND LIT	713	435	1148
GERMAN LANG AND LIT	114	81	195
RUSSIAN LANG AND LIT	31	26	57
FRENCH LANG AND LIT	119	149	268
SPANISH AND PORTUGUESE LANG AND LIT	163	86	249
ITALIAN LANG AND LIT	19	9	28
CLASSICAL LANG AND LIT	58	27	85
ALL OTHER MODERN LANGUAGES	82	39	121
ARTS AND HUMANITIES, GENERAL	11	9	20
ARTS AND HUMANITIES, OTHER	108	69	177

<u>PROFESSIONAL FIELDS</u>	<u>1261</u>	<u>200</u>	<u>1461</u>
RELIGION AND THEOLOGY	47	3	50
THEOLOGY	140	11	151
BUSINESS ADMINISTRATION	759	26	785
HOME ECONOMICS	6	43	49
JOURNALISM	15	4	19
SPEECH AND HEARING SCIENCES	106	54	160
LAW, JURISPRUDENCE	37	3	40
SOCIAL WORK	83	31	114
LIBRARY AND ARCHIVAL SCIENCE	54	24	78
PROFESSIONAL FIELDS, OTHER	14	1	15

SUBFIELD OF DOCTORATE	NUMBER OF DOCTORATES		
	MEN	WOMEN	TOTAL

<u>EDUCATION</u>	<u>5464</u>	<u>1784</u>	<u>7248</u>
FOUNDATIONS, SOCIAL, PHILOS	229	73	302
EDUCATIONAL PSYCHOLOGY	309	167	476
ELEMENTARY EDUCATION, GENERAL	140	173	313
SECONDARY EDUCATION, GENERAL	195	59	254
HIGHER EDUCATION	389	102	491
ADULT EDUC AND EXTENSION EDUC	92	16	108
EDUCATIONAL MEAS AND STATISTICS	83	25	108
CURRICULUM AND INSTRUCTION	474	196	670
EDUCATIONAL ADMIN AND SUPERVISION	1320	136	1456
GUIDANCE, COUNS, STUDENT PERSONNEL	500	169	669
SPECIAL EDUC, GIFTED, HANDICAPPED, ETC	198	98	296
AUDIO-VISUAL MEDIA	93	13	106
AGRICULTURE	32		32
ART	31	16	47
BUSINESS	63	29	92
ENGLISH	61	31	92
FOREIGN LANGUAGE	19	12	31
HOME ECONOMICS		39	39
INDUSTRIAL ARTS	64	1	65
MATHEMATICS	110	24	134
MUSIC	71	31	122
PHYS ED, HEALTH, AND REC	270	98	368
SCIENCE EDUCATION	153	26	179
SOCIAL SCIENCE EDUCATION	54	13	67
VOCATIONAL EDUCATION	118	14	132
OTHER TEACHING FIELDS	70	67	137
EDUCATION, GENERAL	188	78	266
EDUCATION, OTHER	118	78	196
<u>OTHER AND UNSPECIFIED</u>	<u>83</u>	<u>16</u>	<u>99</u>

SOURCE: NRC, Commission on Human Resources,
Doctorate Records File

TABLE 2
STATISTICAL PROFILE OF FY 1973 DOCTORATE RECIPIENTS, BY FIELD OF DOCTORATE

TOTAL ALL DOCTORATES

	FY 1973 TOTAL	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH SCIENCES	PHYSICAL SCIENCES	MATHEMATICS	ENGINEERING	EMP. FIELDS	BASIC MEDICAL SCIENCES	OTHER BIOSCIENCES	BIOSCIENCES	MEDICAL SCIENCES	AGRICULTURAL SCIENCES	ENVIRONMENTAL SCIENCES
NUMBER IN FIELD	33727	1590	1849	577	4016	1222	3338	8576	1850	1529	3379	573	1031	85
MALE %	82.0	56.5	90.3	96.2	93.6	90.3	98.7	95.1	78.5	79.0	78.7	81.2	56.4	91.8
FEMALE %	18.0	3.5	9.7	3.8	6.4	9.7	1.3	4.9	21.5	21.0	21.3	18.8	3.6	8.2
U.S. CITIZENSHIP %	82.6	74.7	78.6	78.7	77.0	77.3	63.7	71.9	84.1	82.5	83.4	73.5	62.7	83.5
FOREIGN CITIZENSHIP %	15.3	23.4	19.7	20.3	21.3	20.8	34.9	26.5	14.1	15.4	14.7	22.3	37.0	16.5
UNKNOWN %	2.1	1.9	1.7	1.0	1.7	1.9	1.4	1.6	1.8	2.0	1.9	4.2	.4	.0
MARRIED %	73.5	67.7	71.5	77.1	70.8	69.8	76.3	72.8	70.4	73.6	71.9	71.6	85.5	80.0
NOT MARRIED %	23.1	28.6	25.6	19.8	26.0	26.8	21.1	24.2	26.2	22.6	24.6	22.7	12.7	18.8
UNKNOWN %	3.4	3.6	2.9	3.1	3.2	3.4	2.6	3.0	3.4	3.7	3.5	5.8	1.8	1.2
MEDIAN AGE AT DOCTORATE	31.3	29.2	28.5	30.4	29.1	29.1	30.4	29.5	29.1	30.2	29.6	31.1	31.1	32.1
PERCENT WITH BACC IN SAME FIELD AS DOCTORATE	59.0	78.5	87.3	58.2	79.7	75.2	83.1	80.4	13.7	66.8	37.8	33.0	68.8	1.2
PERCENT WITH MASTERS	81.4	65.2	38.7	76.9	54.7	81.2	91.3	72.7	50.1	75.9	61.7	59.5	92.1	90.6
MEDIAN TIME LAPSE FROM BACC TO DOCT														
TOTAL TIME YRS	8.4	7.0	6.1	7.7	6.7	6.8	7.7	7.1	6.4	7.4	6.9	7.8	7.9	8.3
REGISTERED TIME YRS	5.8	6.1	5.2	6.0	5.7	5.6	5.6	5.7	5.4	5.8	5.6	5.6	5.4	5.6
POSTDOCTORAL STUDY %														
FELLOWSHIP	7.5	15.1	24.0	9.4	18.4	4.3	5.7	11.4	38.1	17.6	28.8	15.9	6.6	4.7
RESEARCH ASSOC	6.0	27.3	22.9	14.7	23.5	3.4	7.1	14.3	16.1	10.8	13.7	7.9	8.4	5.9
TRAINEESHIP	.5	.6	.6	.2	.5	.3	.3	.4	1.6	1.2	1.4	.3	.8	.0
OTHER	1.6	1.7	1.8	.2	1.6	1.4	1.0	1.3	6.4	1.6	4.3	5.4	1.0	1.2
POSTDOCTORAL EMPLOYMENT %														
EDUC INSTITUTION	53.7	18.3	16.0	35.5	19.7	65.2	22.6	27.3	15.8	42.7	30.2	32.5	39.7	35.3
INDUSTRY/BUSINESS	9.0	12.3	20.1	14.2	16.1	9.2	39.7	24.3	4.4	4.7	4.5	10.3	13.6	24.7
GOVERNMENT	8.3	11.3	4.8	15.6	8.9	6.1	12.8	10.0	4.6	8.0	6.2	11.5	18.5	16.5
NONPROFIT	3.3	1.3	.8	.9	1.0	.9	2.5	1.6	2.2	2.4	2.3	4.0	2.2	4.7
OTHER & UNKNOWN	3.9	3.6	2.8	4.0	3.3	3.0	3.9	3.5	1.8	4.3	2.9	3.7	5.1	1.2
POSTDOCT STATUS UNKN %	6.1	8.3	6.2	5.4	6.9	6.1	4.4	5.8	5.1	6.6	5.8	8.6	4.1	5.9
POSTDOCT WORK ACTIVITY %														
PRIMARY ACTIVITY														
R & D	21.4	54.0	52.5	41.7	50.9	27.8	61.3	51.7	40.4	30.3	34.2	38.6	52.0	31.4
TEACHING	51.4	30.8	30.6	37.8	32.1	61.9	20.2	31.8	42.3	52.5	48.6	33.8	22.8	30.0
ADMINISTRATION	10.2	3.2	2.6	2.0	2.7	.9	2.9	2.5	2.8	2.3	2.5	7.6	2.7	12.9
PROF. SERVICES	8.4	2.3	3.4	6.7	3.7	2.7	6.0	4.6	6.4	4.7	5.4	10.4	8.0	11.4
OTHER	1.6	1.3	1.8	4.0	2.1	.7	2.3	1.9	1.3	2.2	1.9	2.5	4.3	7.1
ACTIVITY UNKNOWN	7.1	8.3	9.1	7.9	8.6	6.0	7.2	7.5	6.8	7.9	7.5	7.0	10.3	7.1
SECONDARY ACTIVITY														
R & D	25.4	16.9	16.1	27.4	18.7	42.6	16.5	22.0	28.7	33.2	31.4	25.1	16.8	27.1
TEACHING	9.4	8.9	6.1	12.6	8.5	11.8	10.3	10.0	17.8	10.8	13.6	14.9	15.8	12.9
ADMINISTRATION	7.2	5.8	7.3	6.4	6.5	2.6	8.2	8.6	6.3	6.2	6.2	8.5	7.1	10.0
PROF. SERVICES	6.3	4.2	3.4	7.2	4.5	3.7	6.1	5.1	4.0	5.3	4.8	5.9	8.0	7.1
OTHER	1.1	.4	.4	.2	.4	.5	1.1	.8	.5	.4	.4	1.1	.9	2.5
NO SECONDARY ACTIVITY	43.5	55.5	57.6	38.3	52.8	32.8	50.5	48.1	36.1	36.2	36.2	37.5	41.2	32.9
UNKNOWN	7.1	8.3	9.1	7.9	8.6	6.0	7.2	7.5	6.8	7.9	7.5	7.0	10.3	7.1
POSTDOCT REGION OF EMPLOYMENT														
NEW ENGLAND	4.9	4.7	4.5	4.2	4.5	5.5	5.6	5.2	3.0	2.9	3.0	3.7	2.6	4.3
MIDDLE ATLANTIC	13.0	11.6	16.7	9.9	13.4	12.0	13.6	13.2	11.5	10.4	10.9	12.1	4.9	14.3
EAST NO CENTRAL	13.2	6.5	14.3	6.9	9.8	13.0	11.1	11.0	12.7	9.5	10.7	13.8	8.6	15.7
WEST NO CENTRAL	5.3	3.0	4.9	1.5	3.5	4.3	3.2	3.5	5.8	4.8	5.2	7.9	7.0	4.3
SOUTH ATLANTIC	12.7	14.0	13.4	14.8	13.9	10.0	10.4	11.5	14.2	14.8	14.6	12.4	12.1	17.1
EAST SO CENTRAL	3.9	3.6	2.1	1.5	2.5	3.5	2.9	2.9	4.0	4.3	4.2	4.5	4.0	4.3
WEST SO CENTRAL	5.8	3.6	4.1	11.9	5.5	4.3	5.3	5.2	7.9	5.8	6.6	4.5	6.4	4.3
MOUNTAIN	4.2	7.0	2.4	9.1	5.5	3.5	4.7	4.8	1.5	3.7	2.8	2.3	3.2	5.7
PACIFIC & INSULAR	9.4	12.1	6.0	11.9	9.5	9.5	10.8	10.1	10.7	10.5	10.6	10.7	5.8	10.0
FOREIGN	7.6	6.6	7.1	9.6	7.4	9.7	10.1	9.1	7.2	10.1	9.0	11.3	24.9	.0
REGION UNKNOWN	20.0	27.4	24.6	18.8	24.5	24.8	22.4	23.5	21.6	23.1	22.5	16.9	20.6	20.0

Refer to explanatory note on page 6 and description of doctoral field groupings on page 19.

TABLE 2. CONTINUED

TOTAL ALL DOCTORATES

LETT SCIENCES	PSYCHOLOGY	ECONOMICS	ANTHROPOLOGY & SOCIOLOGY	POLIT SCI. PUBLIC ADMIN. INTERN'L REL	OTHER SOCIAL SCIENCES	SOCIAL SCIENCES EXCL. PSYCHOL.	TOTAL SCIENCES	HISTORY	ENG AND AMER LANG & LIT	FOREIGN LANG & LIT	OTHER ARTS & HUMANITIES	ARTS & HUMANITIES	PROFESSIONAL FIELDS	EDUCATION	OTHER OR UNSPECIFIED *	TOTAL NON-SCIENCES
5068	2444	938	923	906	700	5911	19555	1213	1412	1003	1736	5364	1461	7248	99	14172
82.8	70.7	93.9	72.9	87.0	85.4	79.0	87.0	85.2	63.4	58.4	75.0	71.2	86.3	75.4	83.8	75.0
17.2	29.3	6.1	27.1	13.0	14.6	21.0	13.0	14.8	36.6	41.6	25.0	28.8	13.7	24.6	16.2	25.0
78.1	93.0	69.3	85.2	83.3	80.7	85.1	77.5	91.8	92.5	82.7	86.9	88.7	81.9	92.9		89.7
20.1	5.3	28.5	12.6	14.3	17.7	13.0	20.8	6.9	5.2	15.5	9.4	8.9	14.5	5.4		1.7
1.8	1.7	2.2	2.3	2.3	1.6	2.0	1.8	1.2	2.3	1.9	3.6	2.4	3.6	1.7		2.6
74.7	68.6	75.8	74.9	74.9	79.6	73.0	73.4	72.3	66.5	67.6	67.1	58.2	77.4	77.5		73.6
21.9	28.9	21.1	22.2	20.9	17.3	24.0	23.5	25.1	30.2	29.3	27.7	28.1	15.2	19.6		22.6
3.4	2.5	3.1	2.9	4.2	3.1	3.0	3.1	2.6	3.3	3.1	5.2	3.7	4.4	2.8		3.7
30.1	29.4	30.4	31.4	31.4	32.2	30.5	30.0	31.5	31.6	32.4	32.4	32.0	33.2	36.5		34.2
42.9	68.2	58.1	52.9	59.6	44.1	60.0	64.5	67.0	78.4	62.4	50.4	63.8	39.5	44.2		51.3
68.2	76.3	75.8	83.9	84.9	92.6	80.6	73.9	90.4	88.1	86.7	82.0	86.4	90.1	96.6		91.6
7.2	6.7	7.6	8.4	8.7	9.0	7.7	7.3	8.9	9.1	9.1	9.5	9.2	10.0	12.5		10.7
5.6	5.4	5.5	6.2	6.1	5.6	5.7	5.6	6.7	6.3	6.3	6.3	6.4	5.9	6.1		6.2
22.4	6.7	1.8	3.1	2.5	1.0	4.1	12.1	2.9	1.1	2.8	1.4	1.9	.7	.8		1.2
11.8	2.8	1.7	1.7	1.5	1.0	2.0	9.9	.6	.3	1.3	.9	.7	.5	.5		.6
1.1	1.4	.3	.1	.2	.1	.7	.7	.0	.2	.1	.3	.2	.3	.3		.3
3.7	1.5	.5	1.6	1.2	.3	1.2	1.9	2.2	1.9	2.2	1.5	1.9	.5	.8		1.2
32.5	44.4	63.4	75.5	67.3	74.0	59.3	38.3	74.5	81.9	77.5	77.1	77.8	69.1	74.9		75.0
7.4	5.0	6.0	2.0	3.2	5.0	4.4	13.9	1.4	1.3	1.4	2.4	1.7	5.8	1.7		2.2
9.5	16.9	11.4	3.8	9.2	6.3	11.5	10.3	3.1	.9	1.2	1.5	1.6	6.7	8.4		5.6
2.5	9.7	4.5	4.3	2.8	3.3	6.2	3.2	2.3	.5	1.2	2.8	1.8	7.5	3.6		3.3
3.4	6.1	5.1	2.1	4.1	4.1	4.8	3.9	5.8	4.7	3.6	3.1	4.2	2.3	4.3		4.0
5.7	5.6	5.2	5.7	7.9	4.9	5.9	5.8	7.3	7.2	8.8	8.9	8.1	6.5	4.7		6.6
39.9	16.0	26.1	17.9	11.6	15.1	17.2	36.4	4.5	1.3	3.2	3.5	3.1	8.5	6.6		5.5
38.7	35.4	60.3	72.4	66.1	67.6	54.3	41.6	78.7	88.6	85.1	82.0	83.6	66.0	45.7		61.7
3.5	4.4	3.3	2.6	7.8	5.2	4.6	3.5	3.4	1.5	2.0	3.0	2.5	8.8	29.3		17.3
6.9	37.3	3.3	2.0	2.0	4.8	16.5	9.5	1.8	.4	1.6	2.8	1.7	9.3	10.7		7.3
2.8	.8	1.2	.5	2.8	1.8	1.3	1.9	1.5	1.0	.6	2.8	1.6	1.3	1.0		1.2
8.2	6.0	5.9	4.6	9.7	5.4	6.2	7.2	10.1	7.1	7.5	5.9	7.5	6.1	6.7		6.9
26.2	32.6	36.7	45.5	37.5	35.1	36.4	28.3	31.8	30.0	30.0	27.7	29.7	29.4	15.7		22.3
14.4	15.4	7.8	9.6	5.9	7.4	10.7	11.2	3.0	1.6	2.7	4.4	3.0	8.3	20.6		7.6
6.9	6.6	6.3	3.5	6.0	6.0	5.9	6.4	5.7	4.3	4.2	5.9	5.1	8.2	10.2		8.1
5.9	9.4	3.3	2.5	2.6	4.0	5.5	5.4	1.7	2.5	2.0	4.4	2.8	9.9	9.7		7.2
.7	.7	.5	.6	.9	2.0	.8	.8	.7	2.4	1.3	3.7	2.2	1.3	1.0		1.5
37.7	29.5	39.6	33.4	37.5	40.1	34.4	40.8	47.0	52.1	52.3	48.0	49.7	36.7	46.0		46.4
8.2	5.9	5.9	4.6	9.7	5.4	6.2	7.2	10.1	7.1	7.5	5.9	7.5	6.1	6.7		6.9
3.0	5.6	6.4	6.1	6.4	4.5	5.8	5.0	5.5	6.8	6.9	5.3	6.0	4.2	4.2		4.9
9.4	17.2	14.0	13.7	13.0	12.5	14.9	13.1	14.3	13.9	14.1	14.4	14.2	11.0	12.4		12.9
10.6	14.3	11.1	14.2	12.5	15.1	13.6	11.9	12.0	13.2	15.9	13.8	13.6	15.0	15.3		14.7
6.0	4.9	4.6	5.9	3.7	5.4	4.9	4.5	5.5	4.7	5.6	6.4	5.6	5.7	6.7		6.2
13.7	11.7	18.5	12.6	17.9	11.4	13.9	12.9	11.3	10.4	11.4	10.6	10.8	17.0	12.7		12.5
4.2	3.8	4.0	1.4	4.0	3.1	3.4	3.3	3.8	4.0	2.2	3.1	3.4	5.3	5.2		4.5
6.2	4.9	5.1	4.2	4.2	6.9	5.0	5.3	5.3	6.0	5.4	5.2	5.5	9.2	6.5		6.4
2.9	3.9	3.3	5.1	2.9	3.5	3.8	4.0	2.7	3.5	3.5	3.0	3.1	5.3	5.1		4.4
9.2	10.2	7.5	13.5	7.8	12.0	10.1	9.9	7.3	7.5	7.5	9.9	8.2	9.6	9.1		8.9
13.7	2.6	16.0	11.4	10.3	11.1	8.5	9.8	5.5	4.1	4.7	7.4	5.6	8.8	4.0		5.1
21.2	20.9	9.4	12.0	17.3	14.5	16.2	20.3	26.9	25.8	22.7	20.9	23.9	9.0	18.8		19.6

*Statistics are not presented for this group because too few records contained the specified data.

SOURCE: NRC, Commission on Human Resources, Doctorate Records File.

TABLE 2
STATISTICAL PROFILE OF FY 1973 DOCTORATE RECIPIENTS, BY FIELD OF DOCTORATE

WOMEN DOCTORATES

	FY 1973 TOTAL	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH SCIENCES	PHYSICAL SCIENCES	MATHEMATICS	ENGINEERING	EMP. FIELDS	BASIC MEDICAL SCIENCES	OTHER BIOSCIENCES	BIOSCIENCES	MEDICAL SCIENCES	AGRICULTURAL SCIENCES	ENVIRONMENTAL SCIENCES *
NUMBER IN FIELD	33727	1590	1849	577	4016	1222	3338	8576	1850	1529	3379	573	1031	85
TOTAL FEMALE % FEMALE	6082 18.0	56 3.5	179 9.7	22 3.8	257 6.4	119 9.7	45 1.3	421 4.9	398 21.5	321 21.0	719 21.3	108 18.8	37 3.6	7 8.2
U.S. CITIZENSHIP %	88.3	58.9	70.9	86.4	69.6	84.9	46.7	71.5	86.4	80.1	83.6	80.6	54.1	
FOREIGN CITIZENSHIP %	9.7	39.3	27.9	9.1	28.8	15.1	53.3	27.6	12.1	18.1	14.7	16.7	45.9	
UNKNOWN %	2.0	1.8	1.1	4.5	1.6	.0	.0	1.0	1.5	1.9	1.7	2.8	.0	
MARRIED %	55.2	58.9	55.3	54.5	56.0	57.1	75.6	58.4	53.8	55.8	54.7	43.5	62.2	
NCT MARRIED %	42.1	35.7	41.9	40.9	40.5	42.0	24.4	39.2	43.7	41.4	42.7	52.8	37.8	
UNKNOWN %	2.6	5.4	2.8	4.5	3.5	.8	.0	2.4	2.5	2.8	2.6	3.7	.0	
MEDIAN AGE AT DOCTORATE	32.6	29.1	28.4	29.5	28.7	28.7	28.6	28.7	28.9	30.0	29.3	32.3	30.1	
PERCENT WITH BACC IN SAME FIELD AS DOCTORATE	54.8	75.0	86.6	54.5	81.3	87.4	71.1	81.9	14.1	69.5	38.8	38.0	37.8	
PERCENT WITH MASTERS	83.4	64.3	45.3	72.7	51.8	87.4	88.9	65.8	50.3	70.1	59.1	65.7	83.8	
MEDIAN TIME LAPSE FROM BACC TO DOCT														
TOTAL TIME YRS	9.7	7.1	6.4	7.0	6.6	6.6	6.6	6.6	6.5	8.0	7.1	8.7	7.8	
REGISTERED TIME YRS	6.0	6.3	5.3	5.9	5.5	5.5	5.4	5.5	5.3	5.9	5.5	5.7	5.3	
POSTDOCTORAL STUDY %														
FELLOWSHIP	7.3	21.4	25.7	9.1	23.3	5.0	2.2	15.9	43.0	20.6	33.0	21.3	8.1	
RESEARCH ASSOC	3.7	30.4	14.5	22.7	18.7	2.5	17.8	14.0	15.3	12.5	14.0	4.6	10.8	
TRAINEESHIP	.7	.0	.0	.0	.0	.0	.0	.0	2.0	1.6	1.8	.9	2.7	
OTHER	1.9	.0	2.2	.0	1.6	4.2	2.2	2.4	4.0	2.2	3.2	2.8	.0	
POSTDOCTORAL EMPLOYMENT %														
EDUC INSTITUTION	60.3	23.2	24.0	40.9	25.3	67.2	40.0	38.7	19.8	42.7	30.0	38.0	40.5	
INDUSTRY/BUSINESS	3.1	5.4	13.4	13.6	11.7	7.6	17.8	11.2	2.8	.9	1.9	.9	5.4	
GOVERNMENT	5.6	3.6	1.7	4.5	2.3	3.4	8.9	3.3	3.0	3.7	3.3	10.2	16.2	
NONPROFIT	3.4	.0	.6	.0	.4	.0	2.2	.5	2.0	1.6	1.8	5.6	2.7	
OTHER & UNKNOWN	6.2	3.6	9.5	4.5	7.8	6.7	4.4	7.1	3.0	7.2	4.9	4.6	8.1	
POSTDOCT STATUS UNKN %	7.7	12.5	8.4	4.5	8.9	3.4	4.4	6.9	5.0	7.2	6.0	11.1	5.4	
POSTDOCT WORK ACTIVITY %														
PRIMARY ACTIVITY														
R & D	12.2	30.0	36.4	21.4	33.6	25.7	48.5	32.4	28.7	23.9	25.8	25.0	44.4	
TEACHING	61.0	40.0	43.2	57.1	44.3	62.4	36.4	50.4	56.6	57.2	57.0	51.6	33.3	
ADMINISTRATION	6.8	.0	.0	.0	.0	.0	3.0	.4	1.6	.6	1.0	9.4	3.7	
PROF. SERVICES	10.0	5.0	3.4	14.3	4.9	4.0	.0	3.9	3.3	3.3	3.3	6.3	3.7	
OTHER	1.4	5.0	1.1	.0	1.6	.0	3.0	1.2	.8	.6	.7	3.1	.0	
ACTIVITY UNKNOWN	8.7	20.0	15.9	7.1	15.6	7.9	9.1	11.7	9.0	14.4	12.3	4.7	14.8	
SECONDARY ACTIVITY														
R & D	25.8	10.0	17.0	50.0	19.7	37.6	30.3	28.1	34.4	35.0	34.8	28.1	14.8	
TEACHING	8.8	5.0	10.2	14.3	9.8	13.9	15.2	12.1	12.3	9.4	10.6	10.9	22.2	
ADMINISTRATION	6.1	5.0	1.1	7.1	2.5	2.0	3.0	2.3	3.3	2.8	3.0	3.1	11.1	
PROF. SERVICES	6.9	5.0	3.4	7.1	4.1	3.0	6.1	3.9	3.3	5.0	4.3	10.9	3.7	
OTHER	1.5	.0	1.1	.0	.8	.0	.0	.4	.0	.0	.0	1.6	.0	
NO SECONDARY ACTIVITY	42.2	55.0	51.1	14.3	47.5	35.6	36.4	41.4	37.7	33.3	35.1	40.6	33.3	
UNKNOWN	8.7	20.0	15.9	7.1	15.6	7.9	9.1	11.7	9.0	14.4	12.3	4.7	14.8	
POSTDOCT REGION OF EMPLOYMENT														
NEW ENGLAND	5.3	5.0	4.5	14.3	5.7	5.0	3.0	5.1	3.3	2.2	2.6	3.1	.0	
MIDDLE ATLANTIC	13.6	10.0	14.8	7.1	13.1	14.9	18.2	14.5	12.3	6.7	8.9	21.9	7.4	
EAST NO CENTRAL	13.2	20.0	11.4	14.3	13.1	8.9	15.2	11.7	12.3	12.8	12.6	14.1	14.8	
WEST NO CENTRAL	4.5	.0	4.5	.0	3.3	3.0	3.0	3.1	5.7	5.6	5.6	1.6	3.7	
SOUTH ATLANTIC	10.9	5.0	5.7	14.3	6.6	10.9	6.1	8.2	8.2	11.1	9.9	12.5	3.7	
EAST SO CENTRAL	2.8	10.0	2.3	.0	3.3	3.0	3.0	3.1	1.6	1.7	1.7	1.6	3.7	
WEST SO CENTRAL	5.7	.0	1.1	14.3	2.5	3.0	.0	2.3	10.7	4.4	7.0	.0	3.7	
MOUNTAIN	3.2	5.0	3.4	.0	3.3	2.0	.0	2.3	1.6	2.2	2.0	3.1	3.7	
PACIFIC & INSULAR	8.6	5.0	3.4	7.1	4.1	14.9	9.1	9.0	10.7	11.7	11.3	14.1	7.4	
FOREIGN	4.5	10.0	6.8	.0	6.6	4.0	15.2	6.6	1.6	10.0	6.6	7.8	25.6	
REGION UNKNOWN	27.7	30.0	42.0	28.6	38.5	30.7	27.3	34.0	32.0	31.7	31.8	20.3	25.9	

Refer to explanatory note on page 6, and the description of doctoral field groupings on page 19.

TABLE 2. CONTINUED

WOMEN DOCTORATES

PHYSICAL SCIENCES	PSYCHOLOGY	ECONOMICS	ASTRONOMICAL & NAUTICAL	POLIT. SCI., PUBLIC ADMIN., INT'L REL.	OTHER SOCIAL SCIENCES	SOCIAL SCIENCES INCL. PSYCHOL.	TOTAL SCIENCES	HISTORY	ENG AND AREA LANG & LIT	FOREIGN LANG & LIT	OTHER ARTS & HUMANITIES	ARTS & HUMANITIES	PROFESSIONAL FIELDS	EDUCATION	OTHER OR UNSPECIFIED *	TOTAL NON-SCIENCES
5068	2444	938	923	906	700	5911	19553	1213	1412	1003	1736	5364	1461	7248	59	14172
871	716	57	250	118	102	1243	2535	179	517	417	434	1547	200	1784	16	3547
17.2	29.3	6.1	27.1	13.0	14.6	21.0	13.0	14.8	36.6	41.6	25.0	28.8	13.7	24.6	16.2	25.0
82.0	92.3	84.2	87.2	89.0	79.4	85.5	83.5	92.2	93.2	83.5	87.8	88.9	91.0	94.1		91.4
16.3	5.9	15.8	10.4	10.2	20.6	8.8	14.5	7.8	4.4	13.7	8.5	8.5	8.0	4.1		6.2
1.7	1.8	.0	2.4	.8	.0	1.6	1.5	.0	2.3	2.9	3.7	2.6	1.0	1.8		2.4
53.5	56.6	57.9	60.8	70.3	60.8	59.1	57.1	63.7	56.1	61.6	51.4	57.1	49.5	52.0		53.9
43.9	41.6	38.6	38.0	27.1	38.2	39.1	40.7	34.6	40.4	34.8	42.9	38.9	49.0	46.2		43.1
2.6	1.8	3.5	1.2	2.5	1.0	1.8	2.2	1.7	3.5	3.6	5.8	3.9	1.5	1.8		3.0
29.5	30.0	29.6	31.5	31.4	32.6	30.6	29.8	32.4	32.0	32.2	32.8	32.3	36.8	38.6		35.3
38.3	63.0	64.9	50.0	69.5	32.4	58.6	55.5	68.7	78.1	65.2	45.6	64.4	35.0	47.5		54.3
61.2	73.3	80.7	84.8	83.1	92.2	78.4	70.4	89.9	89.2	88.0	84.8	87.7	94.5	97.3		92.7
7.3	7.2	7.3	8.4	9.2	9.9	7.9	7.4	9.8	9.7	9.1	10.1	9.6	12.8	14.0		11.6
5.5	5.6	5.6	6.2	6.5	5.9	5.8	5.6	7.0	6.6	6.4	6.3	6.5	5.9	6.1		6.3
30.5	6.8	.0	2.4	.8	1.0	4.6	15.4	3.4	1.2	2.4	1.4	1.8	2.0	1.1		1.4
12.7	2.7	.0	1.2	.0	1.0	1.9	7.6	1.7	.8	1.9	1.4	1.4	.0	.8		1.0
1.7	2.0	.0	.0	.8	.0	1.2	1.2	.0	.2	.2	.5	.3	.5	.4		.4
3.0	2.5	.0	3.2	2.5	1.0	2.4	2.6	5.0	1.7	1.9	1.4	2.1	1.0	1.0		1.5
31.3	41.5	64.9	72.4	64.4	64.7	52.9	43.1	69.8	77.6	73.4	71.2	73.8	64.5	72.8		72.5
2.1	3.9	7.0	1.2	3.4	2.9	3.4	4.2	2.8	1.7	1.4	3.7	2.3	2.5	2.2		2.3
4.8	15.9	12.3	2.8	5.9	7.8	11.5	7.9	3.4	.6	1.7	.9	1.3	7.0	6.1		4.0
2.3	9.4	5.3	4.4	5.1	5.9	7.5	4.5	1.1	.8	.7	1.6	1.0	9.5	3.2		2.6
4.9	8.8	7.0	4.4	8.5	7.8	7.7	6.7	6.1	7.5	6.0	5.5	6.4	5.5	5.7		5.9
6.5	6.6	3.5	8.0	8.5	7.8	7.0	6.8	6.7	7.9	10.3	12.4	9.7	7.5	6.8		8.4
27.3	14.9	27.3	19.2	15.5	25.3	17.5	22.0	6.7	1.5	5.2	6.7	4.5	10.7	8.4		6.8
54.0	33.6	56.4	70.4	67.0	63.7	48.4	50.0	77.2	86.2	83.3	78.1	82.2	63.5	54.8		66.9
2.5	2.8	1.8	1.9	1.9	3.3	2.5	2.2	2.7	1.7	1.7	2.2	1.8	6.2	15.8		9.3
4.0	39.2	3.6	.9	2.9	.0	22.3	15.2	.7	.2	1.4	1.4	.9	10.7	11.9		7.2
1.0	.7	.0	.5	4.9	3.3	1.3	1.2	3.4	.9	.6	3.6	1.8	.6	1.2		1.5
11.1	8.8	10.9	7.0	7.8	4.4	8.1	9.3	9.4	10.1	7.8	8.1	8.8	8.4	7.9		8.3
32.1	30.4	23.6	47.9	38.8	33.0	34.7	33.1	33.6	28.5	24.2	27.8	27.7	23.6	16.8		21.8
11.6	16.2	10.9	11.3	3.9	8.8	13.0	12.5	2.0	1.1	3.5	4.7	2.8	7.9	9.9		6.8
3.8	5.1	3.6	3.3	5.8	1.1	4.4	3.9	3.4	3.1	4.9	5.3	4.2	6.2	9.9		7.3
5.3	8.8	3.6	2.8	2.9	2.2	6.1	5.6	2.7	1.8	2.0	4.7	2.7	14.0	10.8		7.6
.3	.7	.0	1.4	1.0	3.3	1.1	.8	.7	3.1	2.3	4.4	3.0	1.1	1.2		2.0
35.9	30.1	47.3	26.3	39.8	47.3	32.7	34.8	48.3	52.4	55.3	45.0	50.7	38.8	43.4		46.2
11.1	8.8	10.9	7.0	7.8	4.4	8.1	9.3	9.4	10.1	7.8	8.1	8.8	8.4	7.9		8.3
2.5	7.0	7.3	8.5	7.8	7.7	7.5	5.5	8.1	6.1	7.2	5.8	6.6	3.9	3.9		5.0
11.1	20.4	18.2	10.3	16.5	13.2	17.2	15.3	16.1	12.9	13.8	12.8	13.5	14.0	12.0		12.7
12.9	11.2	12.7	8.5	7.8	14.3	10.7	11.3	8.1	15.4	13.0	16.7	14.3	13.5	14.2		14.2
4.8	4.6	5.5	6.1	4.9	3.3	4.8	4.6	3.4	3.7	4.6	4.2	4.0	3.4	4.9		4.5
10.1	9.1	20.0	10.8	14.6	9.9	10.7	10.2	10.7	8.3	10.7	10.3	9.8	14.0	12.3		11.4
1.8	2.1	7.3	1.9	1.9	1.1	2.2	2.3	3.4	1.5	1.4	1.9	1.8	2.2	4.2		3.1
5.6	3.5	5.5	4.2	2.9	7.7	4.1	4.2	4.7	5.0	4.0	4.4	4.6	9.6	7.9		6.6
2.3	2.6	1.8	5.6	1.0	3.3	3.1	2.8	1.3	3.1	2.3	2.2	2.4	5.1	3.9		3.4
11.6	9.8	3.6	11.7	6.8	9.9	9.6	10.0	10.1	6.4	4.6	8.9	7.0	8.4	8.4		7.8
8.1	2.5	5.5	9.4	9.7	7.7	5.2	6.1	4.0	2.9	3.7	5.3	3.9	6.2	3.0		3.5
29.3	27.1	12.7	23.0	26.2	22.0	24.9	27.3	30.2	34.6	34.6	27.5	32.2	19.7	25.3		27.5

*Statistics are not presented because too few records contained the specified data.

SOURCE: NRC, Commission on Human Resources, Doctorate Records File

TABLE 3
PERCENTAGE OF FY 1973 DOCTORATE RECIPIENTS BY SOURCES OF SUPPORT IN GRADUATE SCHOOL BY SUMMARY FIELDS

SOURCES OF SUPPORT IN GRADUATE SCHOOL		DOCTORATE RECIPIENTS BY FIELD									TOTAL
		PHYSICAL SCIENCES	ENGI- NEERING	LIFE SCIENCES	SOCIAL SCIENCES	ARTS AND HUMANITIES	PROF. FIELDS	EDUCA- TION			
		MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN			MEN/WOMEN
NSF FELLOWSHIP	N	502/ 42	237/ 6	245/ 64	186/ 53	32/ 10	7/ 1	264/ 34			1473/ 210
	VE	10.8/11.7	7.5/13.3	6.1/ 7.8	4.2/ 4.5	.9/ .7	.6/ .5	5.1/ 2.1			5.6/ 3.7
	HE	34.1/20.0	16.1/ 2.9	16.6/30.5	12.6/25.2	2.2/ 4.8	.5/ .5	17.9/16.2			100.0/100.1
NSF TRAINEESHIP	N	625/ 61	335/ 4	258/ 62	218/ 43	11/ 10	5/ 2	28/ 6			1460/ 188
	VE	13.4/16.9	10.5/ 8.9	6.4/ 7.5	4.9/ 3.7	.3/ .7	.4/ 1.1	.5/ .4			5.7/ 3.3
	HE	42.2/32.4	22.6/ 2.1	17.4/33.0	14.7/22.9	.7/ 5.3	.3/ 1.1	1.9/ 3.2			59.8/100.0
NIH FELLOWSHIP	N	90/ 16	31/ 0	295/ 88	283/ 152	6/ 3	17/ 11	14/ 22			741/ 292
	VE	1.9/ 4.4	1.0/ .0	7.4/10.7	6.4/13.0	.2/ .2	1.4/ 6.0	.4/ 1.3			2.8/ 5.2
	HE	12.1/ 5.5	4.2/ .0	39.8/30.1	38.2/52.1	.8/ 1.0	2.3/ 3.8	2.6/ 7.5			100.0/100.0
NIH TRAINEESHIP	N	78/ 9	53/ 1	800/ 261	357/ 158	7/ 5	24/ 11	15/ 24			1334/ 469
	VE	1.7/ 2.5	1.7/ 2.2	20.0/31.8	8.1/13.6	.2/ .4	2.0/ 6.0	.3/ 1.5			5.1/ 8.3
	HE	5.8/ 1.9	4.0/ .2	60.0/55.7	26.8/33.7	.5/ 1.1	1.8/ 2.3	1.1/ 5.1			100.0/100.0
NDEA FELLOWSHIP	N	496/ 45	268/ 5	349/ 77	606/ 126	862/ 306	104/ 11	513/ 167			3198/ 737
	VE	10.7/12.5	8.4/11.1	8.7/ 9.4	13.8/10.8	24.0/21.4	8.9/ 6.0	9.9/10.2			12.2/ 13.0
	HE	15.5/ 6.1	8.4/ .7	10.9/10.4	18.9/17.1	27.0/41.5	3.3/ 1.5	16.0/22.7			100.0/100.0
OTHER NEW	N	11/ 0	24/ 0	108/ 24	124/ 69	24/ 13	60/ 27	184/ 106			535/ 239
	VE	.2/ .0	.8/ .0	2.7/ 2.9	2.8/ 5.9	.7/ .9	5.1/14.7	3.5/ 6.4			2.0/ 4.2
	HE	2.1/ .0	4.5/ .0	20.2/10.0	23.2/28.9	4.5/ 5.4	11.2/11.3	34.4/44.4			100.1/100.0
AEC FELLOWSHIP	N	56/ 3	60/ 0	26/ 7	1/ 0	1/ 1	0/ 0	5/ 0			151/ 11
	VE	1.2/ .8	1.9/ .0	.7/ .9	.0/ .0	.0/ .1	.0/ .0	.1/ .0			.6/ .2
	HE	37.1/27.3	39.7/ .0	18.5/61.6	.7/ .0	.7/ 9.1	.0/ .0	3.3/ .0			100.0/100.0
NASA TRAINEESHIP	N	244/ 12	188/ 1	41/ 20	29/ 3	4/ 0	3/ 1	2/ 0			511/ 27
	VE	5.3/ 3.3	5.9/ 2.2	1.0/ 1.2	.7/ .3	.1/ .0	.3/ .5	.0/ .0			2.0/ .5
	HE	47.7/44.4	38.8/ 3.7	8.0/37.0	5.7/11.1	.8/ .0	.6/ 3.7	.4/ .0			100.0/ 99.9
GI BILL	N	265/ 0	236/ 0	365/ 3	575/ 2	457/ 6	190/ 1	1091/ 10			3179/ 22
	VE	5.7/ .0	7.4/ .0	9.1/ .4	13.1/ .2	12.7/ .4	16.2/ .5	21.1/ .6			12.1/ .4
	HE	8.3/ .0	7.4/ .0	11.5/13.6	18.1/ 9.1	14.4/27.3	6.0/ 4.5	34.3/45.5			100.0/100.0
OTHER FEDERAL SUPPORT	N	239/ 12	289/ 0	273/ 39	500/ 137	175/ 55	130/ 40	433/ 147			2039/ 430
	VE	5.1/ 3.3	9.1/ .0	6.8/ 4.7	11.4/11.7	4.9/ 3.9	11.1/21.7	8.4/ 8.5			7.8/ 7.6
	HE	11.7/ 2.8	14.2/ .0	13.4/ 9.1	24.5/31.9	8.6/12.8	6.4/ 9.3	21.2/34.2			100.0/100.1
WOODROW WILSON FELLOWSHIP	N	33/ 4	2/ 0	6/ 3	100/ 39	231/ 109	2/ 1	3/ 1			377/ 157
	VE	.7/ 1.1	.1/ .0	.1/ .4	2.3/ 3.3	6.4/ 7.6	.2/ .5	.1/ .1			1.4/ 2.8
	HE	8.8/ 2.5	.5/ .0	1.6/ 1.9	26.5/24.8	61.3/69.4	.5/ .6	.8/ .6			100.0/ 95.8
OTHER NATIONAL FELLOWSHIP	N	74/ 15	70/ .1	99/ 15	234/ 74	267/ 105	33/ 19	175/ 63			952/ 292
	VE	1.6/ 4.2	2.2/ 2.2	2.5/ 1.8	5.3/ 6.3	7.4/ 7.4	2.8/10.3	3.4/ 3.8			3.6/ 5.2
	HE	7.8/ 5.1	7.4/ .3	10.4/ 5.1	24.6/25.3	28.0/36.0	3.5/ 6.5	18.4/21.6			100.1/ 99.9
UNIVERSITY FELLOWSHIP	N	824/ 83	518/ 11	469/ 133	1053/ 268	1220/ 531	264/ 28	555/ 203			4903/ 1257
	VE	17.7/23.1	16.3/24.4	11.7/16.2	23.9/23.0	34.0/37.2	22.5/15.2	10.7/12.3			18.7/ 22.3
	HE	16.8/ 6.6	10.6/ .9	9.6/10.6	21.5/21.3	24.9/42.2	5.4/ 2.2	11.3/16.1			100.1/ 99.9
TEACHING ASSISTANTSHIP	N	3248/ 264	1269/ 22	1565/ 355	2323/ 525	2256/ 860	531/ 55	1705/ 574			12897/ 2655
	VE	69.9/73.3	39.9/46.9	39.1/43.2	52.7/45.0	62.9/60.2	45.2/29.9	32.9/34.9			49.3/ 47.0
	HE	25.2/ 9.9	9.8/ .8	12.1/13.4	18.0/19.8	17.5/32.4	4.1/ 2.1	13.2/21.6			59.9/100.0
RESEARCH ASSISTANTSHIP	N	2738/ 181	1859/ 26	1804/ 260	1590/ 359	416/ 143	320/ 45	960/ 272			9687/ 1286
	VE	58.9/50.3	58.4/57.8	45.1/31.6	36.1/30.8	11.6/10.0	27.3/24.5	18.5/16.5			37.0/ 22.8
	HE	28.3/14.1	19.2/ 2.0	18.6/20.2	16.4/27.9	4.3/11.1	3.3/ 3.5	9.9/21.2			100.0/100.0
EDUC. FUNDS OF INDUSTRY	N	271/ 12	377/ 2	80/ 10	97/ 15	41/ 24	74/ 4	95/ 24			1035/ 91
	VE	5.8/ 3.3	11.9/ 4.4	2.0/ 1.2	2.2/ 1.3	1.1/ 1.7	6.3/ 2.2	1.8/ 1.5			4.0/ 1.6
	HE	26.2/13.2	36.4/ 2.2	7.7/11.0	9.4/16.5	4.0/26.4	7.1/ 4.4	9.2/26.4			100.0/100.1
OTHER INSTITU- TION FUNDS	N	231/ 28	209/ 4	301/ 53	554/ 144	461/ 210	157/ 27	557/ 223			2470/ 649
	VE	5.0/ 7.8	6.6/ 8.9	7.5/ 6.4	12.6/12.3	12.8/14.7	13.4/14.7	10.7/13.5			9.4/ 12.2
	HE	9.4/ 4.1	8.5/ .6	12.2/ 7.7	22.4/20.9	18.7/30.5	6.4/ 3.1	22.6/32.4			100.2/100.1
OWN EARNINGS	N	865/ 76	856/ 11	874/ 163	1762/ 469	1627/ 606	591/ 90	3207/ 915			9782/ 2330
	VE	18.6/21.1	26.9/24.4	21.8/19.8	46.0/40.2	45.3/42.4	50.3/48.9	61.9/55.7			37.4/ 41.2
	HE	8.8/ 3.3	8.8/ .5	8.9/ 7.0	18.0/20.1	16.6/26.0	6.0/ 3.9	32.5/39.3			99.9/100.1
SPOUSE'S EARNINGS	N	539/ 50	380/ 8	714/ 101	1011/ 247	1005/ 363	377/ 36	1182/ 362			5158/ 1167
	VE	11.6/13.9	11.9/17.8	17.8/12.3	23.0/21.2	28.0/25.4	27.9/19.6	22.8/22.0			19.7/ 20.7
	HE	10.4/ 4.3	7.4/ .7	13.8/ 8.7	19.6/21.2	19.5/31.1	6.3/ 3.1	22.9/31.0			39.9/100.1
FAMILY CONTRI- BUTIONS	N	175/ 11	155/ 4	190/ 37	378/ 116	454/ 194	97/ 10	289/ 123			1738/ 495
	VE	3.8/ 3.1	4.9/ 8.9	4.7/ 4.5	8.6/ 9.4	12.6/13.6	8.3/ 5.4	5.6/ 7.5			6.6/ 8.8
	HE	10.1/ 2.2	8.9/ .8	10.9/ 7.5	21.7/23.4	26.1/39.2	5.6/ 2.0	16.6/24.8			99.9/ 99.9
BORROWINGS	N	305/ 15	219/ 6	331/ 30	708/ 141	726/ 173	201/ 18	954/ 183			3444/ 566
	VE	6.6/ 4.2	6.9/13.3	8.3/ 3.6	16.1/12.1	20.2/12.1	17.1/ 9.8	18.4/11.1			13.2/ 10.0
	HE	8.9/ 2.7	6.4/ 1.1	9.6/ 5.3	20.6/24.9	21.1/30.6	5.8/ 3.2	27.7/32.3			100.1/100.1
OTHER	N	157/ 21	160/ 5	183/ 34	263/ 68	232/ 92	89/ 11	264/ 122			1358/ 355
	VE	3.4/ 5.8	5.0/11.1	4.6/ 4.1	6.0/ 5.8	6.5/ 6.4	7.6/ 7.1	5.1/ 7.4			5.1/ 6.3
	HE	11.6/ 5.9	11.9/ 1.4	13.6/ 9.6	19.5/19.2	17.2/25.9	6.6/ 3.7	19.6/34.4			100.0/100.1
UNDUPLICATED TOTAL	N	4647/ 360	3181/ 45	4001/ 822	4405/1166	3589/1428	1174/ 184	5182/1644			26179/ 5644

Refer to explanatory note on page 7.

SOURCE: NRC, Commission on Human Resources, Doctorate Records File

TABLE 4
NUMBER OF FY 1973 DOCTORATE RECIPIENTS BY STATE AND SUMMARY FIELD

STATE OF DOCTORAL INSTITUTION	PHYSICAL SCIENCES		ENGI- NEERING		NUMBER OF DOCTORATE RECIPIENTS BY FIELD LIFE SCIENCES		SOCIAL SCIENCES		ARTS AND HUMANITIES		PROF. FIELDS		EDUCA- TION		OTHER & UNSPEC.		TOTAL	
	MEN/WOMEN		MEN/WOMEN		MEN/WOMEN		MEN/WOMEN		MEN/WOMEN		MEN/WOMEN		MEN/WOMEN		MEN/WOMEN		MEN/WOMEN	
U.S. TOTAL	4862/ 376		3293/ 45		4197/ 871		4668/ 1243		3817/ 1547		1261/ 200		5464/ 1784		83/ 16		27645/ 6082	
ALABAMA	20/ 4		22/ 0		33/ 8		13/ 5		17/ 6		3/ 0		97/ 38		0/ 0		205/ 61	
ALASKA	3/ 0		1/ 0		2/ 0		0/ 0		0/ 0		0/ 0		0/ 0		0/ 0		6/ 0	
ARIZONA	50/ 1		31/ 1		57/ 13		41/ 9		24/ 5		10/ 0		107/ 43		0/ 0		315/ 69	
ARKANSAS	17/ 2		8/ 0		14/ 3		13/ 1		4/ 3		24/ 1		19/ 9		0/ 0		99/ 19	
CALIFORNIA	603/ 35		467/ 9		463/ 132		516/ 124		370/ 158		101/ 16		401/ 142		50/ 9		2973/ 629	
COLORADO	73/ 2		71/ 1		80/ 11		89/ 27		49/ 20		28/ 6		192/ 39		0/ 0		582/ 106	
CONNECTICUT	97/ 9		32/ 0		60/ 12		85/ 21		112/ 53		12/ 0		46/ 14		0/ 0		444/ 109	
DELAWARE	24/ 1		15/ 0		10/ 2		5/ 4		13/ 2		0/ 0		0/ 0		0/ 0		67/ 9	
D. C.	73/ 7		24/ 0		33/ 26		98/ 31		64/ 34		65/ 4		74/ 23		1/ 0		432/ 125	
FLORIDA	79/ 4		38/ 2		91/ 14		94/ 28		64/ 21		34/ 7		190/ 70		0/ 0		590/ 146	
GEORGIA	69/ 4		42/ 0		69/ 11		78/ 22		60/ 19		27/ 2		98/ 34		0/ 1		443/ 93	
HAWAII	20/ 1		3/ 0		33/ 5		16/ 7		8/ 4		0/ 0		0/ 1		0/ 0		80/ 18	
IDAHO	6/ 1		5/ 0		8/ 0		1/ 0		3/ 0		0/ 0		15/ 1		0/ 0		38/ 2	
ILLINOIS	295/ 29		192/ 5		219/ 64		356/ 72		322/ 118		115/ 21		305/ 101		1/ 0		1805/ 412	
INDIANA	141/ 10		120/ 2		140/ 24		163/ 31		140/ 55		55/ 14		269/ 82		2/ 0		1030/ 218	
IOWA	115/ 3		70/ 0		114/ 11		79/ 13		71/ 19		30/ 1		97/ 18		0/ 0		576/ 65	
KANSAS	57/ 3		35/ 0		79/ 13		58/ 23		39/ 18		3/ 4		70/ 12		0/ 0		341/ 73	
KENTUCKY	23/ 3		15/ 0		43/ 4		38/ 4		14/ 8		17/ 0		17/ 4		1/ 0		168/ 23	
LOUISIANA	45/ 4		20/ 0		56/ 14		36/ 12		52/ 20		27/ 4		42/ 11		1/ 0		279/ 65	
MAINE	7/ 0		4/ 0		8/ 3		3/ 1		7/ 0		0/ 0		9/ 0		0/ 0		38/ 4	
MARYLAND	122/ 10		65/ 4		87/ 20		78/ 29		60/ 35		15/ 2		52/ 44		0/ 0		479/ 144	
MASSACHUSETTS	354/ 34		203/ 1		145/ 48		242/ 84		238/ 104		72/ 7		272/ 96		1/ 0		1527/ 374	
MICHIGAN	214/ 16		131/ 0		233/ 29		243/ 63		171/ 85		65/ 12		371/ 115		3/ 1		1431/ 321	
MINNESOTA	56/ 9		43/ 0		94/ 14		98/ 31		78/ 20		29/ 2		70/ 13		0/ 0		468/ 89	
MISSISSIPPI	9/ 1		8/ 1		50/ 2		37/ 5		8/ 3		17/ 1		98/ 23		0/ 0		227/ 36	
MISSOURI	84/ 3		104/ 1		85/ 14		85/ 33		100/ 30		35/ 6		112/ 29		1/ 0		608/ 116	
MONTANA	13/ 0		6/ 0		19/ 1		17/ 0		0/ 0		0/ 0		23/ 5		0/ 0		78/ 6	
NEBRASKA	26/ 2		6/ 0		51/ 6		25/ 6		24/ 11		5/ 1		56/ 10		0/ 0		195/ 36	
NEVADA	10/ 0		1/ 0		3/ 0		5/ 2		3/ 0		0/ 0		0/ 0		0/ 0		22/ 2	
NEW HAMPSHIRE	24/ 2		5/ 0		20/ 1		8/ 0		1/ 2		0/ 0		0/ 0		0/ 0		58/ 5	
NEW JERSEY	115/ 12		72/ 1		92/ 17		71/ 14		81/ 26		20/ 1		79/ 15		1/ 0		531/ 86	
NEW MEXICO	37/ 2		24/ 0		12/ 3		12/ 3		31/ 15		0/ 0		56/ 17		0/ 0		174/ 40	
NEW YORK	567/ 54		346/ 6		354/ 103		654/ 244		519/ 222		113/ 24		461/ 232		6/ 2		3020/ 887	
NORTH CAROLINA	88/ 8		63/ 3		147/ 31		114/ 32		103/ 50		15/ 8		71/ 26		0/ 0		601/ 158	
NORTH DAKOTA	13/ 0		0/ 0		31/ 1		3/ 1		3/ 0		0/ 0		31/ 7		0/ 0		81/ 9	
OHIO	196/ 14		173/ 2		150/ 32		193/ 52		172/ 64		67/ 14		273/ 104		3/ 2		1227/ 284	
OKLAHOMA	45/ 1		59/ 0		76/ 17		61/ 9		31/ 10		19/ 1		121/ 43		0/ 0		411/ 81	
OREGON	59/ 4		16/ 0		91/ 6		87/ 16		52/ 20		10/ 0		136/ 26		0/ 0		451/ 72	
PENNSYLVANIA	283/ 34		206/ 2		163/ 45		229/ 64		181/ 88		67/ 15		339/ 99		4/ 0		1471/ 347	
RHODE ISLAND	65/ 5		30/ 0		12/ 2		25/ 7		27/ 18		0/ 0		0/ 0		0/ 0		159/ 32	
SOUTH CAROLINA	30/ 1		17/ 0		23/ 6		12/ 1		17/ 4		3/ 0		12/ 9		0/ 0		114/ 21	
SOUTH DAKOTA	2/ 0		5/ 0		12/ 0		6/ 5		0/ 0		0/ 0		17/ 2		0/ 0		42/ 7	
TENNESSEE	53/ 5		32/ 1		78/ 14		83/ 16		65/ 17		4/ 1		104/ 26		0/ 0		424/ 80	
TEXAS	210/ 18		219/ 0		160/ 28		149/ 31		125/ 31		75/ 11		242/ 102		0/ 0		1179/ 241	
UTAH	46/ 0		40/ 1		49/ 5		69/ 10		25/ 11		9/ 0		156/ 20		0/ 0		394/ 47	
VERMONT	4/ 0		3/ 0		9/ 3		5/ 0		4/ 1		0/ 0		0/ 0		0/ 0		25/ 4	
VIRGINIA	57/ 5		54/ 1		47/ 11		30/ 7		40/ 8		11/ 2		51/ 20		0/ 0		290/ 54	
WASHINGTON	101/ 8		55/ 0		122/ 19		97/ 17		71/ 22		31/ 5		39/ 18		6/ 1		522/ 90	
WEST VIRGINIA	15/ 0		11/ 0		29/ 0		21/ 9		8/ 1		0/ 0		33/ 4		0/ 0		117/ 13	
WISCONSIN	121/ 3		78/ 1		130/ 25		120/ 14		145/ 65		28/ 7		116/ 33		2/ 0		740/ 148	
WYOMING	17/ 2		2/ 0		15/ 0		4/ 0		1/ 0		0/ 0		25/ 2		0/ 0		64/ 4	
PUERTO RICO	3/ 0		0/ 0		1/ 1		0/ 0		0/ 1		0/ 0		0/ 0		0/ 0		4/ 2	

Refer to explanatory note on page 7.

SOURCE: NRC, Commission on Human Resources, Doctorate Records File

**Please Do Not Write
In This Space**

Manpower Studies Branch, Office of Scientific Personnel,
National Research Council,
2101 Constitution Avenue, Washington, D.C. 20418

Please print or type.

A. Name in full: (Last Name) (First Name) (Middle Name) (7-28)

B. U.S. Social Security Number: (30-38) CR () Cross Reference: Maiden name or former name legally changed

C. Permanent address through which you could always be reached: (Care of, if applicable) (Number) (Street) (City) (State) (Zip Code) (Or Country if not U.S.)

D. Date of birth: (39-43) (Month) (Day) (Year) Place of birth: (44-45) (State) (Or Country if not U.S.)

E. Sex: 1 ☐ Male 2 ☐ Female (46)

F. Marital status: 1 ☐ Married 2 ☐ Not married (including widowed, divorced) (47)

G. Citizenship: 0 ☐ U.S. native 2 ☐ Non-U.S., Immigrant (Permanent Resident) (48)
1 ☐ U.S. naturalized 3 ☐ Non-U.S., Non-Immigrant (Temporary Resident)
If Non-U.S., indicate country of present citizenship (49-50)

H. Racial or ethnic group: (Check all that apply.) 0 ☐ White/Caucasian 1 ☐ Black/Negro/Afro-American
2 ☐ American Indian 3 ☐ Spanish-American/Mexican-American/Chicano
4 ☐ Puerto Rican-American 5 ☐ Oriental 6 ☐ Other, specify (51-53)

I. High school last attended: (School Name) (City) (State) (54-55)
 Year of graduation from high school: (56-57)

J. List in the table below all collegiate and graduate institutions you have attended including 2-year colleges. List chronologically, and include your doctoral institution as the last entry.

[illegible]

K. Enter below the title of your doctoral dissertation and the most appropriate classification number and field. If a project report or a musical or literary composition (not a dissertation) is a degree requirement, please check box. ☐ 48

Title	Classify using Specialties List
	Number Name of field

L. Name the department (or interdisciplinary committee, center, institute, etc.) and school or college of the university which supervised your doctoral program: _____

Name of your dissertation adviser: (please print) _____ (Last Name) (First Name) (Middle Initial) _____ (8-20)

continued on next page

1
6
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8-20 TA

SURVEY OF EARNED DOCTORATES, Cont.

N. In the space in front of each source of support, indicate the approximate number of semesters you were supported by each of the listed sources during graduate school.

- | | | | |
|-------------------------|---------------------------------------|-------------------------------|--------------------------|
| 21 --- NSF Fellowship | 29 --- GI Bill | 34 --- Teaching Assistantship | 38 --- Own earnings |
| 22 --- NSF Traineeship | 30 --- Other Federal support | 35 --- Research Assistantship | 39 --- Spouse's earnings |
| 23 --- NIH Fellowship | (specify) | 36 --- Educational fund of | 40 --- Family contribu- |
| 24 --- NIH Traineeship | 31 --- Woodrow Wilson Fellowship | industrial or | tions |
| 25 --- NDEA Fellowship | 32 --- Other U.S. national fellowship | business firm | 41 --- Loans |
| 26 --- Other HEW | (specify) | 37 --- Other institutional | 42 --- Other (specify) |
| 27 --- AEC Fellowship | | funds (specify) | |
| 28 --- NASA Traineeship | 33 --- University fellowship | | |

O. Please check the space which most fully describes your status during the year immediately preceding the doctorate.

- 0 ☐ Held fellowship
1 ☐ Held assistantship
2 ☐ Held own research grant
3 ☐ Not employed
4 ☐ Part-time employed
- Full-time
Employed in:
(Other than
0, 1, 2)
- 5 ☐ College or university, teaching
6 ☐ College or university, non-teaching
7 ☐ Elem. or sec. school, teaching
8 ☐ Elem. or sec. school, non-teaching
9 ☐ Industry or business
(11) ☐ Other (specify)
(12) ☐ Any other (specify) (43)

P. How many years (full-time equivalent basis) of professional work experience did you have prior to the doctorate?
(include assistantships as professional experience) (44-45)

Q. U.S. veteran status:

- 0 ☐ Veteran, or in service; dates of active duty from 1 ☐ Non-veteran
(year)
to 2 ☐ Not applicable
(year) (46-50)

POSTGRADUATION PLANS

R. How well defined are your postgraduation plans?

- 0 ☐ Have signed contract or made definite commitment
1 ☐ Am negotiating with a specific organization, or more than one
- 2 ☐ Am seeking appointment but have no specific prospects
3 ☐ Other (specify) (51)

5. What are your immediate postgraduation plans?

- | | | | | |
|---|------------------------------------|----|------------------------------------|--|
| 6 | Postdoctoral fellowship? | 18 | Employment (other than 0, 1, 2, 3) | |
| 7 | Postdoctoral research association? | 19 | Military service | |
| 8 | Traineeship? | 20 | Other (specify) | |
| 9 | Other study (specify) | | | |

If you check 0, 1, 2, or 3, please answer "Y" and omit "U"

T. If you plan to be on a postdoctoral fellowship, associateship, or traineeship —

What is the purpose?

- 0 ☐ To add experience in your present field (53)
1 ☐ To change to a field different from that of the doctorate
(Please enter number of new field from Specialties List
(54-56))

What is the primary source of support?

- 0 ☐ U.S. Government
1 ☐ College or university
2 ☐ Private foundation
3 ☐ Nonprofit, other than private foundation
4 ☐ Other (specify) _____ (57)

U. If you plan to be employed, enter military service, or other —

What will be the type of employer?

- 0 ☐ 4-year college or university
1 ☐ Jr. or community college
2 ☐ Elem. or sec. school
3 ☐ Foreign government
4 ☐ U.S. Government
5 ☐ State or local government
6 ☐ Nonprofit organization
7 ☐ Industry or business
8 ☐ Self-employed
9 ☐ Other (specify) _____ (58)

Indicate primary work activity with "1" in appropriate box; secondary work activity (if any) with "2" in appropriate box.

- 0 ☐ Research and development
1 ☐ Teaching
2 ☐ Administration
3 ☐ Professional services to individuals
5 ☐ Other (specify)

In what field will you be working?

Please enter number from Specialties List (61-63)

V. What is the name and address of the organization with which you will be associated?

(Name of Organization)

(Street)

(City, State)

(Or Country if not U.S.)

(64 69)

BACKGROUND INFORMATION

W. Please indicate, by circling the highest grade attained, the education of

your father: none 1 2 3 4 5 6 7 8 | 9 10 11 12 | | 1 2 3 4 | MA MD PhD | Postdoctoral (70)

	Elementary school						High school				College				Graduate			Postdoctoral	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
your father																			
your mother																			
yourself																			

		Elementary school								High school				College				Graduate			Postdoctoral	(71)
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	MA, MD	PhD			
<i>your mother</i>	none																					

0 1 2 3 4 5 6 7 8 9 (11)

100

Signature

Date completed _____

(72-73)

72 73

MATHEMATICS

- 000 — Algebra
- 010 — Analysis & Functional Analysis
- 020 — Geometry
- 030 — Logic
- 040 — Number Theory
- 050 — Probability, Math. Statistics
(see also 544, 670, 725, 727, 920)
- 060 — Topology
- 080 — Computing Theory & Practice
- 082 — Operations Research (see also 478)
- 085 — Applied Mathematics
- 098 — Mathematics, General
- 099 — Mathematics, Other*

ASTRONOMY

- 101 — Astronomy
- 102 — Astrophysics

PHYSICS

- 110 — Atomic & Molecular Physics
- 120 — Electromagnetism
- 130 — Mechanics
- 132 — Acoustics
- 134 — Fluids
- 135 — Plasma Physics
- 136 — Optics
- 138 — Thermal Physics
- 140 — Elementary Particles
- 150 — Nuclear Structure
- 160 — Solid State
- 198 — Physics, General
- 199 — Physics, Other*

CHEMISTRY

- 200 — Analytical
- 210 — Inorganic
- 220 — Organic
- 230 — Nuclear
- 240 — Physical
- 250 — Theoretical
- 260 — Agricultural & Food
- 270 — Pharmaceutical
- 275 — Polymer Chemistry
- 298 — Chemistry, General
- 299 — Chemistry, Other*

EARTH SCIENCES

- 301 — Mineralogy, Petrology
- 305 — Geochemistry
- 310 — Stratigraphy, Sedimentation
- 320 — Paleontology
- 330 — Structural Geology
- 340 — Geophysics (Solid Earth & Atmospheric)
- 350 — Geomorph., Glacial Geology
- 360 — Hydrology
- 370 — Oceanography
- 380 — Meteorology
- 391 — Applied Geol., Geol. Engr., Econ. Geol.
- 395 — Fuel Tech., Petrol. Engr. (see also 479)
- 398 — Earth Sciences, General
- 399 — Earth Sciences, Other*

ENGINEERING

- 400 — Aeronautical & Astronautical
- 410 — Agricultural
- 415 — Biomedical Engineering
- 420 — Civil
- 430 — Chemical
- 435 — Ceramic
- 440 — Electrical
- 445 — Electronics
- 450 — Industrial
- 455 — Nuclear Engineering
- 460 — Engineering Mechanics
- 465 — Engineering Physics
- 470 — Mechanical
- 475 — Metallurgy & Phys. Met. Engr.
- 478 — Operations Research (see also 082)

- 479 — Fuel Tech., Petrol. Engr. (see also 395)
- 480 — Sanitary
- 486 — Mining
- 497 — Materials Science Engr.
- 498 — Engineering, General
- 499 — Engineering, Other*

ENVIRONMENTAL SCIENCES

- 589 — Environmental Sciences*

AGRICULTURAL SCIENCES

- 500 — Agronomy
- 501 — Agricultural Economics
- 502 — Animal Husbandry
- 503 — Food Science & Technology
- 504 — Fish & Wildlife
- 505 — Forestry
- 506 — Horticulture
- 507 — Soils & Soil Science
- 510 — Animal Sciences
- 511 — Phytopathology
- 518 — Agriculture, General
- 519 — Agriculture, Other*

MEDICAL SCIENCES

- 520 — Medicine & Surgery
- 522 — Public Health
- 523 — Veterinary Medicine
- 524 — Hospital Administration
- 527 — Parasitology
- 534 — Pathology
- 536 — Pharmacology
- 537 — Pharmacy
- 538 — Medical Sciences, General
- 539 — Medical Sciences, Other*

BIOLOGICAL SCIENCES

- 540 — Biochemistry
- 542 — Biophysics
- 544 — Biometrics, Biostatistics
(see also 050, 670, 725, 727, 920)
- 545 — Anatomy
- 546 — Cytology
- 547 — Embryology
- 548 — Immunology
- 550 — Botany
- 560 — Ecology
- 562 — Hydrobiology
- 564 — Microbiology & Bacteriology
- 566 — Physiology, Animal
- 567 — Physiology, Plant
- 569 — Zoology
- 570 — Genetics
- 571 — Entomology
- 572 — Molecular Biology
- 578 — Biological Sciences, General
- 579 — Biological Sciences, Other*

PSYCHOLOGY

- 600 — Clinical
- 610 — Counseling & Guidance
- 620 — Developmental & Gerontological
- 630 — Educational
- 635 — School Psychology
- 641 — Experimental
- 642 — Comparative
- 643 — Physiological
- 650 — Industrial & Personnel
- 660 — Personality
- 670 — Psychometrics
(see also 050, 544, 725, 727, 920)
- 680 — Social
- 698 — Psychology, General
- 699 — Psychology, Other*

SOCIAL SCIENCES

- 700 — Anthropology
- 708 — Communications*
- 710 — Sociology
- 720 — Economics (see also 501)
- 725 — Econometrics
(see also 050, 544, 670, 727, 920)

- 727 — Statistics
(see also 050, 544, 670, 725, 920)
- 740 — Geography
- 745 — Area Studies*
- 750 — Political Science, Public Admin.
- 755 — International Relations
- 770 — Urban & Reg. Planning
- 798 — Social Sciences, General
- 799 — Social Sciences, Other*

ARTS & HUMANITIES

- 801 — Art, Applied
- 802 — Art, History & Criticism
- 804 — History, American
- 805 — History, European
- 806 — History, Other*
- 807 — History & Philosophy of Science
- 830 — Music
- 831 — Speech as a Dramatic Art
(see also 885)
- 832 — Archeology
- 833 — Religion (see also 881)
- 834 — Philosophy
- 835 — Linguistics
- 878 — Arts & Humanities, General
- 879 — Arts & Humanities, Other*

LANGUAGES & LITERATURE

- 811 — American
- 812 — English
- 821 — German
- 822 — Russian
- 823 — French
- 824 — Spanish & Portuguese
- 826 — Italian
- 827 — Classical*
- 829 — Other Languages*

EDUCATION

- 900 — Foundations: Social, Philosoph.
- 910 — Educational Psychology
- 908 — Elementary Educ., General
- 909 — Secondary Educ., General
- 918 — Higher Education
- 919 — Adult Educ. & Extension Educ.
- 920 — Educ. Meas. & Stat.
- 929 — Curriculum & Instruction
- 930 — Educ. Admin. & Superv.
- 940 — Guid., Couns., & Student Pers.
- 950 — Special Education (Speech, Gifted, Handicapped, etc.)
- 960 — Audio-Visual Media

TEACHING FIELDS

- 970 — Agriculture
- 972 — Art
- 974 — Business
- 976 — English
- 978 — Foreign Languages
- 980 — Home Economics
- 982 — Industrial Arts
- 984 — Mathematics
- 986 — Music
- 988 — Phys. Ed., Health, & Recreation
- 990 — Science Educ.
- 992 — Social Science Educ.
- 994 — Vocational Educ.
- 996 — Other Teaching Fields*
- 998 — Education, General
- 999 — Education, Other*

OTHER PROFESSIONAL FIELDS

- 881 — Theology (see also 833)
- 882 — Business Administration
- 883 — Home Economics
- 884 — Journalism
- 885 — Speech & Hearing Sciences
- 886 — Law, Jurisprudence
- 887 — Social Work
- 891 — Library & Archival Science
- 897 — Professional Field, Other*
- 899 — OTHER FIELDS*

* Identify the specific field in the space provided on the questionnaire.

CODE NUMBERS FOR FIELDS DISPLAYED IN TABLE 2

TOTAL ALL FIELDS

Physics & Astronomy (101-199)

Chemistry (200-299)

Earth Sciences (301-399)

Physical Sciences Subtotal (101-399)

Mathematics (000-099)

Engineering (400-499)

EMP Total (000-499)

Basic Medical Sciences (540-542, 545-548, 564-566, 572)

Other Biosciences (544, 550-562, 567-571, 578-579)

Biosciences Subtotal (540-579)

Medical Sciences (520-539)

Agricultural Sciences (500-519)

Environmental Sciences (589)

Life Sciences (500-589)

Psychology (600-699)

Economics and Econometrics (720, 725)

Anthropology & Sociology (700, 710)

Political Science, Public Administration, International Relations (750, 755)

Other Social Sciences (708, 725-745, 770-799)

Social Sciences Total (600-799)

Total Sciences (000-799)

History (804-807)

English & American Language & Literature (811, 812)

Foreign Languages & Literature (821-829)

Other Arts & Humanities (801-802, 830-879)

Arts & Humanities Total (801-879)

Professional Fields (881-897)

Education (900-999)

Other or unspecified (899)

Total Non-Sciences (801-999)